



AFC TAPES

Experience That Matters

AFC's management team, with over 150 years of collective industry experience, gives AFC a unique position to address the challenges of today's marketplace.

There is no substitute for a business partner who truly understands your business. Our exposure to thousands of applications in hundreds of diverse industries provides us with the experience and resources necessary to provide solutions for your most difficult applications. We are proud of the fact that much of AFC's success is attributed to our "real world" experience.

As an experienced leader, AFC is able to remain stable and focused in a competitive and turbulent business environment. While many companies have come and gone during the past 15 years, AFC has proven itself to be a solid, committed and dependable business partner. Our experience has enabled AFC to maintain its customer-focused strategy in a business environment that is constantly evolving.

"When you consider service, reliability and quality, AFC is a consummate supplier. Add to those qualities their flexibility, innovative abilities and knowledgeable customer service staff with a 'can do' attitude, you have a company that makes doing business a truly pleasurable experience."

AFC Customer

Focused On Customers

AFC PROVIDES VALUE TO CUSTOMERS BY COMBINING SUPERIOR PRODUCTS AND EXCEPTIONAL SERVICE WITH COMPETITIVE PRICING.

Our industry experience and long-term partnerships have enabled us to develop a set of core values to meet our customers' unique needs. Innovation, quality and service are the three areas that deliver the highest value to our customers. Internal processes have been developed to support AFC's values, ensuring that the overall customer experience is unmatched in the industry.

What differentiates AFC? Any company can sell a product solely on **price**. However, how much did the product **really cost** if inferior quality, long lead-time or late delivery resulted in the loss of your customer? What is the **cost of your time** if it takes hours to get a quote or an answer to a technical question? How much did it **cost** if the **product is returned** because you were supplied the wrong technical information for the application? **How much would it be worth** if you provided your customers a superior product that meets their needs and, as a result, earn their long-term loyalty? AFC's focus on providing **value beyond price** is what separates us from our competition.



AFC Pressure Sensitive Tapes

AFC manufactures and distributes a wide range of pressure sensitive tapes to meet the most demanding applications. AFC's products range from supported and unsupported PTFE tapes to film tapes, and are available with various adhesive systems.

AFC's DuraStick® Tapes utilize DuraFab® Fabrics with the added benefit of an adhesive on one side. These tapes are manufactured from woven fiberglass substrates, possess an optimal PTFE content, leave a minimal fabric impression, and have a silicone or acrylic adhesive system. Because of the glass reinforcement, these products are resistant to "cold-flow", a characteristic inherent in pure unsupported PTFE films. AFC's tapes are an excellent choice when cut-through, load carrying, or harsh industrial environments require the unique surface characteristics of PTFE. AFC's DuraStick® Tapes provide the highest value to customers by offering an excellent balance of heat transfer, release, and flexibility.

Adhesive Systems:

Acrylic

DuraStick® industrial acrylic tapes have a blue liner and are the best choice when tape is to be applied to an ambient surface where the heat is applied to the fabric. Acrylic adhesives are aggressive (tacky) at lower temperatures and possess virtually an unlimited shelf life.

Silicone

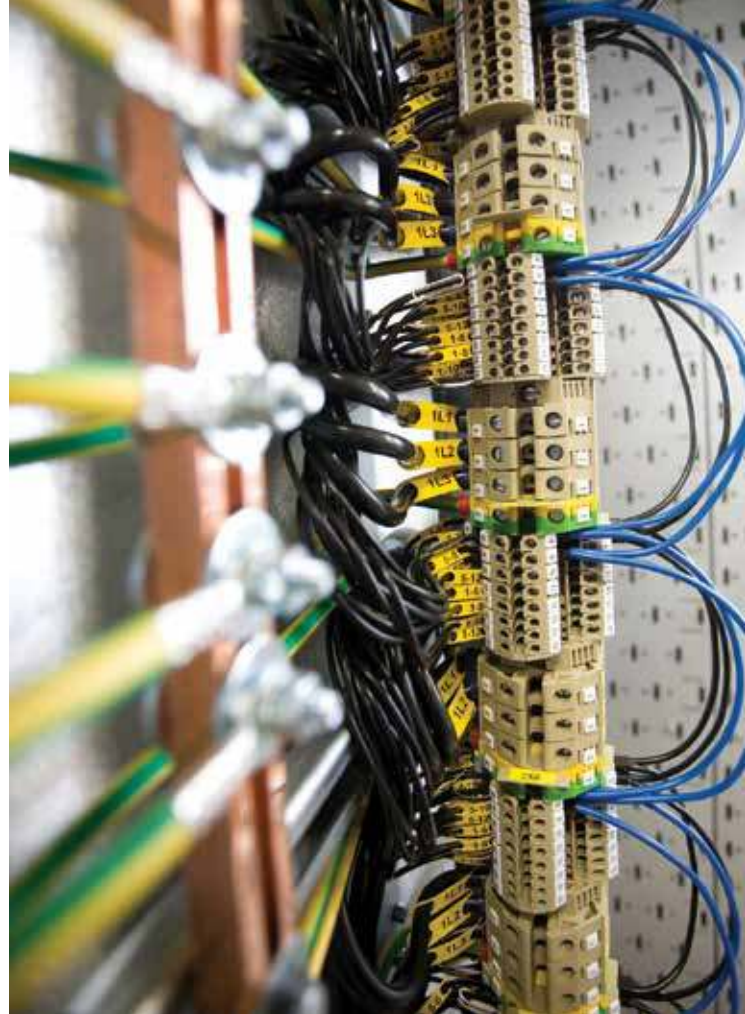
DuraStick® industrial silicone tapes are furnished with a yellow liner and are an excellent choice when the tape is being applied to a heated surface. Silicone adhesives are best used within six months from the date of manufacture. After six months, the adhesive will begin to crosslink and eventually lose its tack. To obtain the maximum shelf life, these tapes should be stored in an air-conditioned room or refrigerated at low humidity.

Rubber

DuraStick® rubber tapes have a white liner and are the best choice for lower temperature applications. Rubber adhesives are highly aggressive (tacky) at lower temperatures and possess virtually an unlimited shelf life.

High Performance Silicone

An excellent choice for applications such as electrical insulation, plasma/flame spray and applications with intermittent temperatures up to 550°F.





DuraStick® Tapes



DuraStick® Industrial Tape (220 Series)

The DuraStick® Industrial Tapes are manufactured from woven fiberglass substrates, possess an optimal PTFE content, leave a minimal fabric impression and have a silicone or acrylic adhesive system on one side. As AFC's most popular and versatile tape series, DuraStick® Industrial Tapes provide the highest value to customers by offering an excellent balance of heat transfer, release and flexibility. These tapes are an excellent choice when cut-through, load carrying or harsh industrial environments require the unique surface characteristics of PTFE.



DuraStick® Zone Tape (120 Series)

The DuraStick® Industrial Zone Tapes are manufactured from woven fiberglass substrates, possess an optimal PTFE content, leave a minimal fabric impression and have an adhesive system on the edges of one side. The absence of adhesive

in the center zone allows for faster heat transfer through the tape and makes the tape an excellent choice for specific types of impulse sealing applications. The DuraStick® Zone Tapes are a quick, easy and economical means of applying a non-stick surface to heat-sealing platens.



Eterna® Tapes

The Eterna® Series is AFC's latest innovation and consists of a non-stick proprietary coating system to glass cloth for long lasting release. The Eterna® coating offers exceptional barrier and anti-wicking properties; excellent durability; and smooth, glossy finish on coated fabrics. Adding a silicone adhesive to the fabric AFC provides a tape with superior release and excellent abrasion resistant properties. (Eterna® is a registered trademark of Whitford Corporation)



DuraStick® Silicone Sponge Tape (400 Series)

The DuraStick® Silicone Sponge Tapes are manufactured by applying a specially formulated acrylic adhesive to a high-temperature, fiberglass reinforced

silicone sponge. The resulting tapes are highly compressible, flexible and conformable; however, the fiberglass reinforcement allows the sponge to keep its shape and reduces stretch. DuraStick® Silicone Sponge Tapes are easy to apply and are excellent for use as gaskets, heat-sealing pads, cushions and thermal insulators.



DuraStick® Aluminum Foil Tape (450 Series)

DuraStick® Aluminum foil tape is a high performance aluminum backed tightly woven glass cloth that is coated with a silicone adhesive that can be used in many high temperature applications. This product is ideal for wire harness applications requiring high temperature resistance. Other typical applications include seal for automotive air bag inflators, to hold insulation on hot air ducts; holding, splicing or general protecting tape on many applications involving high temperatures.



DuraStick® Skived PTFE Film Tape (660 Series)

The DuraStick® Skived PTFE Film Tapes are manufactured by applying a

silicone adhesive to a skived PTFE film, are the most conformable and have the highest elongation of any PTFE tape produced by AFC. Pure PTFE film tapes such as these exhibit the best chemical, fire and weathering resistance of any tape we manufacture. In addition, these tapes have exceptional electrical properties and are ideal for wire and cable insulation and protection.



DuraStick® Extruded PTFE Film Tape (664 Series)

The DuraStick® Extruded PTFE Tapes are manufactured by applying a silicone adhesive to an extruded PTFE film and are widely used for roll protection in high speed, high temperature flat die extrusion applications. Pure PTFE film tapes such as these exhibit the best chemical, fire and weathering resistance and are the toughest PTFE film tape we produce. DuraStick® Extruded tapes are commonly used to insulate coils and transformers because of their exceptionally high dielectric and tensile strengths and low elongation.



DuraStick® UHMW-PE Tape (670 Series)

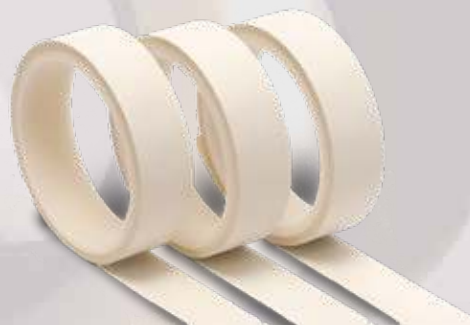
DuraStick® UHMW-PE Tapes are manufactured by applying a rubber

adhesive to an ultra-high molecular weight polyethylene film. These tapes provide excellent non-stick, reduced friction and noise reduction properties. Their superior abrasion resistance properties make them ideal for surface wear applications such as chute linings, conveyor systems and guide rails.



DuraStick® Fiberglass Cloth Tape (480 Series)

DuraStick® Fiberglass Cloth Tapes consist of a tightly woven, high tensile fiberglass cloth coated with a silicone adhesive. These tapes possess a high thermal rating, are flame retardant, abrasion and edge-tear resistant, conformable and provide superior solvent resistance. DuraStick® Fiberglass Cloth Tapes are an excellent choice for electrical and mechanical applications where chemical resistance properties of PTFE (Teflon®) are not required. AFC's cloth tapes meet Mil, ASTM, and SAE SPEC Requirements (QLP Approval: 19166)



DuraStick® Rubber Lagging Tape (410 Series)

DuraStick® Rubber Lagging Tapes are manufactured by applying a silicone adhesive to a silicone rubber coated fiberglass. The tape is mainly used to lag drive pulleys for belting applications.



DuraStick® Polyimide Tape (690 Series)

DuraStick® Polyimide Tapes are manufactured by applying a silicone adhesive to a polyimide film and provide the greatest dielectric strength of any product in AFC's line of tapes. Because of their unique properties, DuraStick® Polyimide Tapes are ideal for use as electrical insulation in the aerospace and electronics industries.

Adhesive Systems and Temperature Ranges:

Silicone:

-100°F to 500°F (-73°C to 260°C)

Acrylic:

-40°F to 350°F (-40°C to 178°C)

Rubber:

-30°F to 225°F (-34°C to 107°C)

High Performance Silicone:

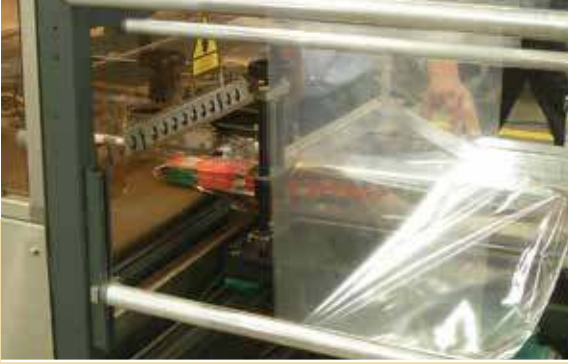
-100°F to 550°F (-73°C to 288°C)

Tape Processing Capabilities:

- Slitting and rewinding
- Custom die cutting
- Sheeting
- Custom perforating services



Tapes by Industry



Packaging Industry

AFC Products for the Packaging Industry

DuraStick®

- Industrial
- Gold Tape

Eterna®

One of the oldest and most established applications for coated fiberglass tapes is the flexible packaging industry. AFC'S DuraStick® products are excellent for use in two primary areas: Plastic bag production and form, fill and seal machines for plastic bags.

Plastic bag producers use coated tapes on equipment that is used to heat seal many widely used storage, trash, and other film bags as well as many other packaging applications. Used in conjunction with precise time and temperature control AFC'S DuraStick® products will achieve satisfactory release of the plastic material in the heat sealing process.

AFC's Tapes offer the Packaging Industry:

- Good heat transfer
- Durability
- Temperature resistivity (-100 to 550°F or -73 to 287°C)
- Tear resistant
- Flexible
- Smooth non-stick
- Good release

Typical Applications:

- Poly bag manufacturing
- Impulse/L-bar seal
- Form fill and seal
- Over wrapping (tray packing)
- Side and end sealing
- Blister tray covers
- Vacuum pack machines





Building Products/ PVC Window Welding

AFC Products for the Building Products Industry

DuraStick®

- Industrial
- Gold

Eterna®

AFC's DuraStick® products are used in the vinyl window industry on the welders that bond the vinyl extrusions of new and replacement windows to prevent the hot PVC from sticking to the plates. AFC'S products are specifically engineered to maximize product life, while minimizing downtime in the welding production process. In tests carried out in the PVC window industry, our products have been shown to last significantly longer than equivalent products from other manufacturers.

AFC's Tapes offer the Building Products/PVC Window Welding Industry:

- Heat resistant
- Abrasion resistant
- Non-stick
- High dielectric strength
- PVC resistant
- Dimensional Stability under Heat and Pressure

Typical Applications:

- Covering welding plates



Aerospace/Aircraft Industry



AFC Products for the Aerospace/Aircraft Industry

DuraStick®

- Industrial
- Skived PTFE
- Cloth Tape
- Lagging Tape
- Aluminum Foil Tape

The growing emphasis on safety in the aerospace and aircraft industry has resulted in an increased demand for PTFE coated tapes. There is an increased importance of fire resistant materials where human life and intricate machinery must function as a reliable unit. These requirements highlight the unique properties of AFC'S DuraStick® products. Our PTFE tapes are fire resistant. They are non-flammable in a normal atmosphere. In a highly oxygenated atmosphere, glass fiber reinforced PTFE burns at a rate of less than 3/10" or 7.62MM per second.

AFC'S products are unique because they are manufactured in very high quality controlled standards. AFC'S products are engineered to meet the highest military, NASA and civilian specifications.

AFC's Tapes offer the Aerospace Industry:

- Durability
- Flame retardant and chemical resistant
- Mechanical strength
- Smooth non-stick surface
- Temperature resistant (-100 to 550°F or -73 to 287°C)
- Controlled DK and low dissipation factor (Microwave)
- High cold-flow
- Semi-conductivity
- Excellent airflow and porosity

Typical Applications:

220 Series

- Composite mold release and bonding
- Slot-stick and commutator insulation
- Slot liners, spacers, field and armature winding
- Wire and cable insulation and protection
- Bearing pads/surface
- High temperature masking

480 Series

- Coil, component, and cable wrapping
- Motor lead and internal connection
- Insulation coil connections and ends
- Anchoring terminal boards
- Coil outer wraps
- Holding coil leads
- Cable harness wrapping
- Sealing and enclosing hermetically packaged components
- Economical thermal spray tape

410 Series

- Masking tape for ceramic and metal plasma spraying
- Grit blasting
- HVOF (high velocity oxy-fuel)
- Arc Spraying

450 Series

- Fuselage panels to reduce vibration and sound
- Moisture and vapor barrier
- Radiant heat shield
- Chemical stripping
- Masking applications

660 Series

- Composite mold release / bonding
- Slot liners, spacers
- Vacuum bagging





Electrical and Electronic Industries

AFC Products for the Electrical and Electronic Industries

DuraStick®

- Industrial
- UHMW-PE
- Skived PTFE
- Extruded PTFE
- Aluminum Foil Tape

AFC's DuraStick® products are used to hold, insulate, isolate, mask shield and protect coils, transformers, devices and various electrical components. They are typically used for major winding, layer and lead insulation, lead anchoring, coil covers, bundling, wrapping, banding and isolation, EMI-RFI shielding and anti-static applications.

AFC's Tapes offer the Electrical and Electronic Industries:

- High temperature resistance (-100 to 550°F or -73 to 287°C)
- Non-stick
- Flexibility and tear Resistant
- Chemical resistant
- Abrasion resistant
- Dimensional stability
- Corrosion resistant
- Fungus resistant
- Good release
- High flexural endurance
- High dielectric
- Controlled Dk (Microwave)
- Low dissipation factor
- High peel strength

Typical Applications:

- Transformer wrapping
- Cable splicing
- Generator Insulation
- Wire cable wrap
- Wire braiding
- High Frequency laminates



Plastics & Chemical Industries

AFC Products for the Plastics and Chemical Industries

DuraStick®

- Industrial
- Gold Tape
- Skived PTFE

Eterna®

AFC's DuraStick® products have been widely accepted as material handling aids in the Plastic Industry.

AFC's Tapes offer the Plastics and Chemical Industry:

- Smooth, non-stick surface
- Temperature resistant (-100 to 550°F or -73 to 287°C)
- Chemical resistant
- Durability
- Heat transfer
- Flexibility
- Non-absorption
- Dimensional stability (Belting)
- Open weave
- Semi-conductivity
- High cold-flow
- Non-contaminatory

Typical Applications:

- Release tape for welding of polythene bags/sacks
- Tank seals and contaminant barriers
- Gaskets, membranes, seals & diaphragms
- Corrosion, resistant chute, drum and hopper liners
- Protective curtains and aprons



Screen Printing Industry

AFC Products for the Screen Printing Industry

DuraStick®

- Industrial

Screen printing and graphic arts represent a large potential market for AFC'S DuraStick® products. AFC'S products are widely used in drying, fusing and laminating processes.

Although the individual properties of AFC products are remarkable, it is their unique combination in one material that renders them suitable for applications in the printing industry.

AFC's Tapes offer the Screen Printing Industry:

- Temperature resistant (-100 to 550°F or -73 to 287°C)
- Smooth, non-stick surface
- Easy to clean
- Non-wetting characteristics

Typical Applications:

- Silkscreen table covers



Metallized Balloon Industry

AFC Products for the Metallized Balloon Industry

DuraStick®

- Industrial

- Gold

Eterna®

AFC'S DuraStick® products are extensively used in the production of Metallized balloons. AFC'S products are specifically engineered to maximize product life in the welding production process.

AFC's Tapes offer the Metallized Balloon Industry:

- Heat resistant
- Abrasion resistant
- Non-stick
- High dielectric strength
- PVC resistant
- Dimensional Stability under Heat and Pressure

Typical Applications:

- Heat sealing process

Typical Applications of AFC Tapes

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Eterna® Tapes (260 and 275 Series)
DuraStick® Industrial Zone Tape (120 Series)
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Aluminum Tape (450 Series)
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|----------------------------------|--|--|---|---|---|--|-----------------------------------|--|---|--|--|--|---|
| Packaging | Poly Bag Manufacturing | • | • | • | • | • | | | | | | | |
| | Impulse/I-bar Sealing | • | • | • | • | | | | | | | | |
| | Form Fill and Seal | • | • | • | • | | | | | | | | |
| | Over Wrapping (Tray Packing) | • | • | • | • | | | | | | | | |
| | Side and End Sealing | • | • | • | • | | | | | | | | |
| | Blister Tray Covers | • | • | • | • | | | | | | | | |
| | Vacuum Pack Machines | • | • | • | • | | | | | | | | |
| | Heat sealer bar cover Hotwire cover | | | | | • | | | | | | | |
| | Drop Sealers | | | | | • | | | | | | | |
| | Sealing pads | | | | | | • | | | | | | |
| | Reynolds overwrap sealing applications | | | | | | • | | | | | | |
| Food Products | Work Surface Covering | • | • | • | • | | | • | | | | | |
| | Tray Liners | • | • | • | • | | | • | | | | | |
| | Anti-stick surface for dough making applications | | | | | | | | • | | | | |
| | Chutes, pans for cereal manufacturing | | | | | | | | • | | | | |
| | Tabletop surface liners | | | | | | | | • | | | | |
| | Hopper liners | | | | | | | | • | | | | |
| | Bottling line dump table liners | | | | | | | | • | | | | |
| | Release surface for sticky foods, candies | | | | | | | | • | | | | |
| | Skid surface for milk cartons | | | | | | | | • | | | | |
| | Can and bottle filling line surface protection | | | | | | | | • | | | | |
| | Belt protector | | | | | | | | • | | | | |
| Printing and Textiles | Non-stick roll coverings | • | • | • | • | | | • | • | | | | |
| | Angle bars-graphic arts industry | | | | | | | | • | | | | |
| Pulp and Paper | Non-stick roll coverings | • | • | • | • | | | • | • | | | | |
| | Flat die extrusion applications | | | | | | | | • | | | | |
| Building Products | Vinyl Window Manufacturing | • | • | • | • | | | • | | | | | |

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|--|---|---|--|---|---|---|---|-----------------------------------|--|---|--|--|--|---|
| Chemical Processing | Tank Seals and Contaminant Barriers | • | • | • | • | | | | • | | | | | |
| | Gaskets, Membranes, Seals, and Diaphragms | • | • | • | • | | | | • | | | | | |
| | Corrosion Resistant Chute, Drum, and Hopper Liners | • | • | • | • | | | | • | | | | | |
| | Lining of Spray Booths | • | • | • | • | | | | • | | | | | |
| | Guide Rails | • | • | • | • | | | | • | | | | | |
| | Chemical stripping | | | | | | | • | | | | | | |
| Aerospace, Communications, and Military | Composite Mold Release/bonding | • | • | • | • | | | | • | | | | | |
| | Vacuum Bagging | • | • | • | • | | | | • | | | | | |
| | Insulation tapes for extreme temperature applications | | | | | | | | | | | | | • |
| | Fuselage panels to reduce vibration and sound | | | | | | • | | | | | | | |
| Materials Handling | Conveyor side liners | | | | | | | | | | • | | | |
| | Sheet bearings | | | | | | | | | | • | | | |
| | Chute liners | | | | | | | | | | • | | | |
| | Chain guides | | | | | | | | | | • | | | |
| | Conveyor belt anti-friction surface | | | | | | | | | | • | | | |
| | Wear plates and wear strips | | | | | | | | | | • | | | |
| Environmental | Wear strip for sludge collection equipment | | | | | | | | | | • | | | |
| | Wear plates and surfaces | | | | | | | | | | • | | | |
| | Scraper blades | | | | | | | | | | • | | | |
| Agriculture | Gravity box lining | | | | | | | | | | • | | | |
| | Grain chute liners | | | | | | | | | | • | | | |
| | Harvester chute liners | | | | | | | | | | • | | | |
| | Non-stick surface in seed and fertilizer spreader | | | | | | | | | | • | | | |
| Woodworking and Lumber Industries | Furniture drawer glides | | | | | | | | | | • | | | |
| | Window and door channel liners | | | | | | | | | | • | | | |
| | Chain guides | | | | | | | | | | • | | | |
| | Router table slide surfaces | | | | | | | | | | • | | | |
| | Bin liners | | | | | | | | | | • | | | |
| | Internal component in woodworking equipment | | | | | | | | | | • | | | |

Additional Applications Exist! Call AFC for More Details.

Typical Applications of AFC Tapes

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DuraStick® Black Anti-Static & Thermal Conductive Tape (264 Series)

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|--|--|---|------------------------------------|------------------------------------|--|--|----------------------------|---|--|---------------------------------------|---|---|--|
| Sliding surfaces | | | | | | | | | | • | | | |
| Anti-stick surface | | | | | | | | | | • | | | |
| Anti-icing surface | | | | | | | | | | • | | | |
| Covering of work surfaces | | | | | | | | | | • | | | |
| Low friction rub strips | | | | | | | | | | • | | | |
| Glide surfaces or pads | | | | | | | | | | • | | | |
| Manufacture of Metallized Balloons | • | • | • | • | | | | | | | | | |
| Bearing pads/surface | • | • | • | • | | | | | | | | | |
| Work Surface Covering | • | • | • | • | | | • | | | | | | |
| High-Temperature Masking | • | • | • | • | | | | | | | | | |
| High temperature gaskets | | | | | | • | | | | | | | |
| Vibration dampening medium | | | | | | • | | | | | | | |
| Thermal insulation material | | | | | | • | | | | | | | |
| Cushioning tape | | | | | | • | | | | | | | |
| Heat sealing bars and jaws | | | | | | | | • | | | | | |
| Mold release medium | | | | | | | | | • | | | | |
| Guide rails | | | | | | | | | • | | | | |
| Economical thermal spray tape | | | | | | | | | | | • | | |
| Sealing and enclosing hermetically-packaged components | | | | | | | | | | | • | | |
| Lagging rollers | | | | | | | | | | | | • | |
| Masking tape for ceramic and metal plasma flame spraying | | | | | | | | | | | | • | |
| Grit Blasting | | | | | | | | | | | | • | |
| HVOF (High Velocity Oxy-Fuel) | | | | | | | | | | | | • | |
| Arc Spraying | | | | | | | | | | | | • | |
| Moisture and vapor barrier | | | | | | • | | | | | | | |
| Radiant heat shield | | | | | | • | | | | | | | |
| Masking applications | | | | | | • | | | | | | | |

Additional Applications Exist! Call AFC for More Details.

Who is AFC?

AFC (Advanced Flexible Composites) is a global solutions provider of durable, high performance composites. Since 1988, we have focused on providing innovative high temperature and non-stick solutions for a wide range of industries, such as flexible packaging, aerospace, and food processing. Based in Lake in the Hills, Illinois, this private, family-owned organization has grown to four locations across the globe with over 150 employees.

At AFC, we take the time to fully understand your production process. What is the root cause of product failure? What are the associated costs of downtime? How do you define success, and how can we help you achieve it? By pairing the right product with superior technical support and customer service, AFC is your strategic partner for high temperature and non-stick solutions.

AFC Industrial Group

AFC's industrial operation focuses on the design and manufacturing of PTFE and silicone-coated fabrics and belting, along with an extensive line of pressure-sensitive tapes for use in diverse industrial applications worldwide. Our Specialty Belting Division concentrates on heat sealers, belt accessories and specialty belting, including highly engineered products.

AFC Food Product Group

AFC's Food Product Group is a global supplier of durable, high temperature smallwares. AFC has collaborated with OEM's and end-users to design solutions specifically engineered to withstand the rigorous environment of the Quick Service Restaurant (QSR), casual restaurant industry, as well as the everyday consumer's home kitchen. Our products can be found under the trade name DuraChef®. Our DuraChef® branded products are FDA compliant, and are suitable for direct food contact. AFC distributes DuraChef® products through retail for different cooking applications and are a perfect addition for the average consumer's in-home use.

Our Mission

We solve problems and serve others.

Our Vision

Bigger, Better, Faster

Our Core Values

POSITIVE

Striving to do our best and meet each challenge with a "Can-Do" attitude.

RESPECTFUL

The basic foundation of all relationships. We appreciate diverse backgrounds, cultures and perspectives.

INNOVATIVE

Embracing new ideas, new processes, and new products as our future.

DRIVEN

Continually learning and bettering ourselves, regardless of circumstance.

ETHICAL

Choosing to do the right thing at home and at work for fellow employees and customers.

Not all PTFE Coated Fabrics are Created Equal

There are factors such as coating weight and quality, Fluoropolymer (PTFE) type and content that greatly affect product performance and must be considered when comparing products. AFC's focus on providing superior products that meet our customer's needs is what separates us from our competition.



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